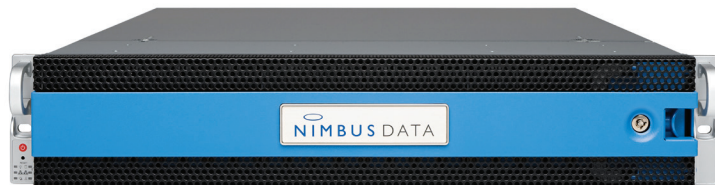


E-Class Flash Memory Platform

Unmatched solid state storage scalability, fault-tolerance, and efficiency for next-gen datacenters



Highlights

- 100% Flash Memory (solid state storage)
- Up to 50x faster than conventional disk arrays
- Consumes up to 80% less power and rackspace
- Unified multi-protocol SAN and NAS platform
- No single point of failure for high-availability
- Ethernet, Fibre Channel, and/or Infiniband ports
- Comprehensive data management software

Advantages

- Performance: Up to 800,000 4K IOps
- Throughput: Up to 8,000 MBps
- Latency: As low as 0.2 ms
- Efficiency: As low as 5 W per TB
- Scalability: From 10 TB to 500 TB
- Density: Up to 10 TB per rack U
- Simplicity: All-inclusive HALO software

Next-generation Intelligent Solid State Storage Platform

The E-Class Flash Memory System is the industry's first fully-redundant multiprotocol solid state storage system. Scalable to 500 TB with power consumption as low 5 watts per TB and density as high as 20 TB per U, the E-Class outperforms and costs less to operate than conventional 15K pm disk arrays. With no-single-point-of-failure, the Nimbus E-Class is ideal for applications such as enterprise-wide server virtualization, database clusters, Web infrastructure, VDI , and high-performance computing.

The E-Class consists of a pair of redundant controllers and up to 24 solid state storage enclosures. Each controller supports four active-active IO modules including 10 Gigabit Ethernet, Fibre Channel, and Infiniband. Nimbus software automatically detects controller and path failures, providing non-disruptive failover as well as online software updates and online capacity expansion. With RAID protection and hot-swappable flash, power, and cooling modules, components can be easily replaced without downtime. The E-Class is powered by Nimbus' award-winning HALO storage operating system for comprehensive unified SAN/NAS features.

Nimbus E-Class Specifications

Models	E6400M (controller) E1000X (expansion) E2000X (expansion)	6 x 6Gbps SAS ports and 4 IO slots 10.0 TB: 24 x 400 GB Enterprise Flash Modules 20.0 TB: 24 x 800 GB Enterprise Flash Modules															
Connectivity	Network Ports Management Ports	Up to 16 ports of Gigabit Ethernet Up to 16 ports of 10 Gigabit Ethernet Up to 8 ports of 8 Gbps Fibre Channel Up to 8 ports of 56 Gbps FDR Infiniband 2 x GbE (RJ-45)															
Storage	Maximum Flash Modules Maximum Capacity NAND Configuration	576 500 TB Enterprise-grade flash with 28% reserve provision															
System	Software Processor Cores Redundant Components	Nimbus HALO operating system 12 Controllers, flash modules, power supplies, fans, and IO modules															
Platform Support	Operating System Support Virtualization Support	Windows Server 2003/2008, Windows 7, Linux, Solaris, HP/UX, Netware, AIX VMware ESX Server, Citrix XenServer, Microsoft Hyper-V, Virtual Iron															
Dimensions	Height Width Depth Weight (maximum)	<table border="0"> <thead> <tr> <th></th> <th>Controller</th> <th>Solid State Storage Enclosure</th> </tr> </thead> <tbody> <tr> <td></td> <td>2 RU Units (3.46 in or 87.9 mm)</td> <td>2 RU Units (3.46 in or 87.9 mm)</td> </tr> <tr> <td></td> <td>17.49 in or 443.7 mm</td> <td>17.49 in or 443.7 mm</td> </tr> <tr> <td></td> <td>25.18 in or 639.6 mm</td> <td>25.18 in or 639.6 mm</td> </tr> <tr> <td></td> <td>58.0 lbs or 26.3 kg</td> <td>42.0 lbs or 19.1 kg</td> </tr> </tbody> </table>		Controller	Solid State Storage Enclosure		2 RU Units (3.46 in or 87.9 mm)	2 RU Units (3.46 in or 87.9 mm)		17.49 in or 443.7 mm	17.49 in or 443.7 mm		25.18 in or 639.6 mm	25.18 in or 639.6 mm		58.0 lbs or 26.3 kg	42.0 lbs or 19.1 kg
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Power	Voltage Frequency Electrostatic Discharge	100 - 240 VAC 48 - 62 Hz 15 KV per test specification															
Environmental	Ambient Temperature Relative Humidity Altitude Acoustics	Operating: 5 to 35 °C, Non-operating: 1 to 50 °C Operating: 10% to 80% non-condensing Operating: 0 to 2,133 m, Non-operating: -305 to 12,192 m < 7.0 BA in idle state at 23 °C ambient temperature															
Shock & Vibration	Operational Shock Operational Vibration Non-operational Shock Non-operational Vibration	5G for 10ms Random 0.21 grms 5-500 Hz 30G for 10ms Random 1.04 grms 2-200 Hz															
Agency Approvals	UL and cUL listed. Tested to UL 60950. FCC Class A. Certified Body Certificate and Report to IEC60950. CE marked to requirements of Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility Directive 89/336/EEC.																
Warranty & Support	One (1) year warranty standard, extendable to seven (7) years. Premium onsite service options and spares kits available.																

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